LISTING OF THE CLAIMS (1-32)

Claims 1-4 (withdrawn)

Claim 5 (canceled)

Claim 6 (currently amended): <u>A method of forming a semiconductor structure, comprising:</u>

forming a charge-trapping structure on a substrate; wherein said charge-trapping structure comprises:

- (i) a first ONO structure on a first portion of said substrate;
- (ii) a second ONO structure on a second portion of said substrate, wherein said first portion does not completely overlap said second portion; and
- (iii) a gate oxide between said first and second ONO structures; and

said ONO structures comprise a nitride layer between a first oxide
layer and a second oxide layer; The method of claim 5, wherein
said forming comprises:

forming an oxide-conductive layer on said substrate, said oxide-conductive layer comprising a first conductive layer on a thick oxide layer;

laying down a bit line mask of photoresist, said bit line mask formed generally in columns at least within a memory portion of said substrate;

removing at least a portion of said oxide-conductive layer wherever said photoresist is not present to form oxide-conductive-layer columns comprising said gate;

implanting bit lines wherever said photoresist is not present and generally in columns;

removing said photoresist;

removing a portion of said remaining thick oxide layer from said oxide-conductive-layer columns to form a recess and said gate oxide;

growing a thin oxide layer over said memory portion of said substrate, the portion of said thin oxide layer in the lower region of said recess forming said first oxide layer and the portion of said thin oxide layer in the upper region of said recess forming said second oxide layer;

Serial No.: 10/086,112

depositing a nitride layer over said thin oxide layer to a thickness sufficient to fill said recess; and

removing said nitride layer except in the region of said recess to form said ONO structures.

Claim 7 (original): The method of claim 6, further comprising: forming bit line dielectrics on said bit lines; and removing said thin oxide layer from the top surface of said oxide-conductive-layer columns.

Claim 8 (original): The method of claim 7, further comprising depositing a second conductive layer on said substrate.

Claim 9 (original): The method of claim 8, further comprising concurrently etching said first and second conductive layers to form word lines perpendicular to and on said bit line dielectrics and said oxide-conductive-layer columns.

Claim 10 (currently amended): A method of forming a semiconductor device, comprising:

making a semiconductor structure by the method of claim [[5]]6; and

forming a semiconductor device from said semiconductor structure.

Claim 11 (original): A method of making an electronic device, comprising:

making a semiconductor device by the method of claim 10; and forming an electronic device comprising said semiconductor device.

Claim 12 (original): A method of forming a semiconductor device, comprising:

making a semiconductor structure by the method of claim 6; and

forming a semiconductor device from said semiconductor structure.

Claim 13 (currently amended): A method of making an electronic device, comprising:

making a semiconductor device by the method of claim 12; and forming an electronic device comprising said semiconductor device .

Claim 14 (currently amended): <u>A method of forming a semiconductor structure</u>, comprising:

forming a charge-trapping structure on a substrate; wherein said charge-trapping structure comprises:

- (i) a first ONO structure on a first portion of said substrate;
- (ii) a second ONO structure on a second portion of said substrate, wherein said first portion does not completely overlap said second portion; and

(iii) a gate oxide between said first and second ONO structures; and

said ONO structures comprise a nitride layer between a first oxide
layer and a second oxide layer; The method of claim 5, wherein said
forming comprises:

forming an oxide-conductive layer on said substrate, said oxide-conductive layer comprising a first conductive layer on a thick oxide layer;

laying down a bit line mask of photoresist, said bit line mask formed generally in columns at least within a memory portion of said substrate;

removing at least a portion of said oxide-conductive layer wherever said photoresist is not present to form oxide-conductive layer columns comprising said gate on said gate oxide;

implanting bit lines wherever said photoresist is not present and generally in columns;

removing said photoresist; and

forming an ONO layer within said memory portion of said substrate, said ONO layer comprising said nitride layer between said first oxide layer and said second oxide layer;

removing said ONO layer except from the regions adjacent to said oxide-conductive-layer columns to form said ONO structures.

Claim 15 (original): The method of claim 14, further comprising: forming bit line dielectrics on said bit lines and said ONO structures; and

removing said thin oxide layer from the top surface of said oxide-conductive-layer columns.

Claim 16 (original): The method of claim 15, further comprising depositing a second conductive layer on said substrate.

Claim 17 (original): The method of claim 16, further comprising concurrently etching said first and second conductive layers to form word lines perpendicular to and on said bit line dielectrics and said oxide-conductive-layer columns.

Claim 18 (currently amended): A method of forming a semiconductor device, comprising:

making a[[n]] semiconductor structure by the method of claim
14; and

forming a semiconductor device from said semiconductor structure.

Claim 19 (original): A method of making an electronic device, comprising:

making a semiconductor device by the method of claim 14; and forming an electronic device comprising said semiconductor device.

Claim 20 (original): A method of forming a semiconductor structure, comprising:

forming a charge-trapping structure on a substrate; wherein said charge-trapping structure comprises:

- (i) a first ONO structure on a first portion of said substrate;
- (ii) a second ONO structure on a second portion of said substrate, wherein said first portion does not completely overlap said second portion; and

(iii) a gate oxide between said first and second ONO structures; and

said ONO structures comprise a nitride layer between a first oxide
layer and a second oxide layer; The method of claim 5, wherein
said forming comprises:

forming an oxide-conductive layer on said substrate, said oxide-conductive layer comprising a first conductive layer on a thick oxide layer;

within a memory portion of said substrate, removing at least a portion of said oxide-conductive layer to form oxide-conductive-layer columns comprising said gate;

implanting bit lines between said oxide-conductive-layer
columns;

removing a portion of said remaining thick oxide layer from said oxide-conductive-layer columns to form a recess and said gate oxide;

Serial No.: 10/086,112

growing a thin oxide layer over said memory portion of said substrate, wherein the portion of said thin oxide layer in the lower region of said recess forms said first oxide layer and the portion of said thin oxide layer in the upper region of said recess forms said second oxide layer;

depositing a nitride layer over said thin oxide layer to a thickness sufficient to fill said recess; and

removing said nitride layer except in the region of said recess to form said ONO structures.

Claim 21 (original): The method of claim 20, further comprising: forming bit line dielectrics on said bit lines; and removing said thin oxide layer from the top surface of said oxide-conductive-layer columns.

Claim 22 (original): The method of claim 21, further comprising depositing a second conductive layer on said substrate.

Claim 23 (original): The method of claim 22, further comprising concurrently etching said first and second conductive layers to form word lines perpendicular to and on said bit line dielectrics and said oxide-conductive-layer columns.

Claim 24 (currently amended): A method of forming a semiconductor structure, comprising:

forming a charge-trapping structure on a substrate; wherein said charge-trapping structure comprises:

- (i) a first ONO structure on a first portion of said substrate;
- (ii) a second ONO structure on a second portion of said substrate, wherein said first portion does not completely overlap said second portion; and

(iii) a gate oxide between said first and second ONO structures; and

said ONO structures comprise a nitride layer between a first oxide
layer and a second oxide layer; The method of claim 5, wherein
said forming comprises:

forming an oxide-conductive layer on said substrate, said oxide-conductive layer comprising a first conductive layer on a thick oxide layer;

Serial No.: 10/086,112

within a memory portion of said substrate, removing at least a portion of said oxide-conductive layer to form oxide-conductive layer columns comprising said gate on said gate oxide;

implanting bit lines between said oxide-conductive layer
columns;

forming an ONO layer within said memory portion of said substrate, said ONO layer comprising said nitride layer between said first oxide layer and said second oxide layer; and

removing said ONO layer except from the regions adjacent to said oxide-conductive-layer columns to form said ONO structures.

Claim 25 (original): The method of claim 24, further comprising: forming bit line dielectrics on said bit lines and said ONO structures; and

removing said thin oxide layer from the top surface of said oxide-conductive-layer columns.

Claim 26 (original): The method of claim 25, further comprising depositing a second conductive layer on said substrate.

Claim 27 (original): The method of claim 26, further comprising concurrently etching said first and second conductive layers to form word lines perpendicular to and on said bit line dielectrics and said oxide-conductive-layer columns.

Claims 28-32 (withdrawn)